Mohammad Abbas

Full Stack Developer

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📍 Beirut, Lebanon

Summary

Full-Stack Developer with 2+ years of experience building modern web applications. Skilled in developing scalable, high-performance solutions and delivering seamless user experiences across both front-end and back-end systems. Passionate about turning complex problems into intuitive, reliable software.

Experience

Frontend Developer, *Vertex Partners*   04/2025 – 10/2025
                                                                                                                     Remote
- Served as a key frontend developer for Places4Students, a leading online marketplace connecting students with off-campus housing.
- Optimized the platform's performance, accessibility, and SEO to achieve Lighthouse scores of 90+ on both desktop and mobile.
- Engineered a dynamic user dashboard and an interactive map interface using Next.js, significantly improving user navigation and engagement.
- Developed a scalable and maintainable frontend architecture to ensure long-term stability and ease of future development.

Full Stack Developer Intern, *3E Tech*   01/2025 – 04/2025
                                                                                                                     Beirut, Hybrid
- Contributed to the development of a full-stack Property Management Dashboard, building and integrating key features using TypeScript, React, and an Express.js backend.
- Spearheaded the implementation of a secure, multi-step user form for the dashboard with complex validation using React Hook Form and Zod.
- Engineered a full-stack Learning Management System (LMS) from the ground up, featuring a NestJS backend, React frontend, and a PostgreSQL database managed with Prisma.
- Optimized database queries within the LMS to improve performance by 25% while implementing features like role-based access control.

Software Developer, *Bracket Technologies*   05/2024 – 08/2024
- Engineered a high-performance search engine with dynamic filters for a flight/hotel booking platform.
- Developed a secure, role-based user registration system.
- Collaborated in a team environment to build and scale the platform using Bracket, ensuring robust and reliable performance.

Education

Bachelor in Management Information Systems, *Lebanese University*   2021 – 2025

Skills

Programming Languages
JavaScript, TypeScript, C, C#, Java, Python, Go, SQL, NoSQL

Frameworks & Libraries
React.js, Next.js, Angular, Express.js, Nest.js, Springboot, Tailwind, Jest

Databases & ORMS
Postgres, Mysql, Mongodb, Prisma, Hibernate, JPA

Tools
Git, Github, Github Actions, Docker, Playwright

Runtime Enviroment
NodeJs

Volunteer Work

Full Stack Developer — 08/2024 – Present, Remote

- Built and deployed a full-stack platform with a **Next.js frontend** and a backend **migrated from Java to Go**, aggregating programming content, deployed on **Vercel** and **GCP** using **Docker**, with **Cloudflare** for DNS, CDN, and edge security.
- Migrated the backend from **Java to Go**, reducing Docker image size by **~77%**, significantly improving **Cloud Run cold-start performance**, accelerating deployments, and enabling **lower memory usage and improved cost efficiency**.
- Designed and automated large-scale data aggregation using **Python scrapers with Playwright**, collecting and maintaining **20,000+ courses**, with scheduled **cron jobs** for continuous content updates and a **scalable MySQL database**.
- Implemented end-to-end security and delivery automation with **JWT-based authentication**, **role-based access control**, and **GitHub Actions–driven CI/CD** for reliable, scalable, and maintainable deployments.

Projects

Custom Programming Language

- Engineered a custom, dynamicaly-typed programming language from the ground up, implementing parser and grammar using nearley.js to generate an Abstract Syntax Tree (AST).
- Architected a custom transpiler to convert the language's source code into optimized, executable JavaScript, ensuring full compatibility with the Node.js runtime.

Job Match Agent

- Built a high-performance tool scraping 10+ job sites in parallel using **Playwright**, reducing data collection time.
- Processed and cleaned job titles and descriptions, embedding them with **Sentence-Transformers** and matching resumes using **cosine similarity** for precise semantic relevance.
- Tracked historical job data to prevent duplicates and continuously surface top opportunities, implemented in **Python** with a **Flask** dashboard.

Rapid Express

- Engineered a globally-installed CLI tool to automate Express.js app scaffolding, enabling rapid generation of production-ready APIs with a single command.
- Designed a scalable folder architecture with built-in decorators and error-handling middleware, reducing initial developer setup time by 70%.
- Published on npm, achieving 1,200+ downloads and creating a valuable tool for the developer community.